Data sheet:

Cutting tool for plastic fiber optic cable

Article no.: 81600

EUR 438.00

*Net price for commercial users

Clean cuts for better transmission

The special pliers 81600 cut duplexfiber optic cables having dimensions of 4.4 x 2.2mm quickly and precisely, and without requiring additional grinding or polishing of the cut surface.

Properties

Function:

- **Trim plastic fiber optic cable without reworking the cut surface**
- **Clean cut surfaces with a special cutting fixture**
- **Exact guiding of the cable in the cutter**
- **Can be used immediately, since no grinding and polishing of the interface is required**
- **Universal application for all POF systems with integrated stripping tool:**
  - Cutting and stripping with one tool
  - Shaped knife for damage-free stripping

Qualities:

- **Long-life cutting tool with rotating cutting wheel**
- **Replacable cutting tool**
- **Easy to use, good ergonomics**
- **Burnished pliers with plastic handle**
- **Material: Special tool-grade steel**

Wish for something!
Your suggestions for improvement and additions

Worth knowing

The use of plastic fiber optics for data transmission in noisy environments is a reliable, economical and easy to install technology which is suitable for distances up to 100 meters.

For short transmission distances it is entirely sufficient to trim the plastic optical fiber cable using simple tools, such as a sharp knife. In these applications the additional attenuation caused by a less than ideal cut is irrelevant to the quality of the data transmission. The light intensity at the reception location is in any case sufficient for a reliable connection in spite of any losses resulting from an imperfect cut.

But when you begin to approach the maximum permissible distance, the cut quality is important in terms of the achievable distance and the stability of the connection, and can determine whether a connection is feasible or not: A perfect cut can give you up to an additional 20 meters of distance in borderline conditions.

The decisive criterion for the quality of the cut is a flat cut at right angles to the cable axis, so that as little light as possible is lost through scatter or reflection. Such cuts can be achieved using the Wiesemann & Theis cutting tool, without requiring additional grinding or polishing of the cut surface.

Caution: The tool is not suitable for trimming glass fiber optic cables. Any attempt to cut glass fiber media using the tool will damage the cutting element.

To help you evaluate the cutting quality, we will gladly send you on request a section of fiber optic cable which has been trimmed using the cutting tool.

Differences in cut quality
with a simple tool / with the cutting tool

Technical data

Function:	Cutting and trimming of plastic fiber optic cables
Compatible media:	Only 2.2mm Simplex and 4.4 x 2.2mm Duplex plastic fiber optics with 980um fiber core
Cutting life:	1260 cuts until the cutter needs to be replaced
Dimensions:	200 x 80 x 50mm (L x W x H)
Weight:	520g
Scope of delivery:	Fiber optic cutting tool Allen key for securing during transport

Accessories

*Net unit price for commercial users

FO-Accessories

Replacement cutter for cutting tool 81600 (Unfortunately, this article cannot be ordered as a sample.)	81602	168.00€

* Our offering is intended only for commercial users. We will be happy to refer private end customers to trading partners through whom our products can be purchased.

We are available to you in person:

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